A GLOSSARY OF TERMS USED IN RADIATION PROTECTION

Absorbed dose	Physical quantity defined as the energy transferred per unit mass to
Absorbed dose	a body by ionising radiation. Has the units of Grays (Joules/Kg).
Accelerator	Defined by IRR17 as apparatus in which particles are accelerated
Accelerator	
	and from which ionising radiation with an energy higher than 1 MeV
A C - D	is emitted.
ACoP	Approved Code of Practice
ADR	The European Agreement concerning the International Carriage of
	Dangerous Goods by Road (2019). This is EU legislation that is
	referred to by CDG.
ALI	Annual Limit on Intake. The intake of a radionuclide (in Becquerels)
	which is associated with a committed effective dose limit of 20 mSv
	(the statutory dose limit).
ADS	Approved Dosimetry Service. A provider of personal dosimetry
	and/or dose record keeping services that has been approved for
	these purposes by HSE.
Becquerel	The S.I. Unit of activity corresponding to one disintegration per
	second. Multiples kBq, MBq, GBq, etc. Other unit used in USA and
	previously in UK: 1 Curie = 37 GBq.
Best Available	The level of management and engineering control that minimises,
Technique (BAT)	as far as reasonably practical, the release of radioactivity to the
roominquo (BAT)	environment. This taking into account cost effectiveness,
	technological developments, operational safety and
	social/economic factors.
Carrier	Any individual or organisation undertaking the transport of
Carrier	radioactive material by road.
CDG Regulations	The Carriage of Dangerous Goods and use of Transportable
	Pressure Equipment Regulations 2009. Regulations (As Amended)
	applying, amongst other things, to the transport of radioactive
	substances by road in the UK. The bulk of the detail is in ADR
	which is referenced by CDG.
Classified person	A person designated in accordance with Regulation 21 of IRR17.
Committed dose	The concept used to relate to the dose received after an intake of a
	radionuclide for the purpose of comparison with the statutory
	annual dose limits. This accounts for the fact that for radionuclides
	that have long physical half lives and which are retained for long
	periods in the body the absorbed dose (energy deposited) is
	received over a number of years and not in a single year.
Consignee	Any individual or organisation to whom radioactive material is
-	dispatched, and who is named in the transport document.
Consignment note	A document that travels with a package of radioactive material in
	transit by road, air, or sea. Previously called "Transport Document".
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Consignor	Any individual or organisation who presents a consignment for
	transport, and who is named in the transport document.
Contamination	Dispersed radioactive material including spills of radioactive liquids
	on benches, airborne radionuclides (including mists and dusts) and
	activity released from a damaged sealed radioactive source.
Controlled area	An area designated in accordance with Regulation 17 of IRR17
DGSA	Dangerous Goods Safety Adviser – advises on application of
	transport regulations (see CDG Regulations)
Dose coefficient	The estimated committed dose per unit intake for a given
	radionuclide and pathway (e.g. ingestion, inhalation). Published by
	ICRP and others and determined using element and chemical form
	specific biokinetic models. (Units are Sv Bq ⁻¹).
Dose constraint	A prospective target on the maximum individual dose associated
	with work with ionising radiations. Not the same as a statutory dose
	limit or a retrospective investigation level.
Driver	The individual who drives the vehicle transporting the radioactive
	material.
EA	Environment Agency, who administer and enforce the
	Environmental Permitting Regulations 2016 (EPR16).
Effective dose	Loosely "whole body dose". The dose summed over all exposed
	organs and tissues of the body, weighted for the relative biological
	harm associated with different types of radiation (alpha, beta,
	gamma, x-ray) as well as the different radio-sensitivities of different
	tissues and organs. Effective dose relates to the risk of stochastic
	effects, principally cancer induction and has the units of Sieverts.
	The current statutory dose limit on effective dose for an adult
	worker is 20 mSv.
EPR 2016	The Environmental Permitting Regulations 2016.
Equivalent dose	The dose to an individual organ or tissue or the extremities
	weighted for the relative harm associated with different types of
	radiation (alpha, beta, gamma, x-ray). Associated with separate
	(higher) dose limits than effective dose. Has the units of Sieverts.
External radiation	Exposure of persons from radiations originating from outside the
	body, e.g. x-ray beams, gamma ray sources, beta sources, neutron
	sources.
HSE	Health and Safety Executive who enforce IRR17.
ICRP	International Commission on Radiological Protection.
Internal radiation	Exposure of persons consequent on intakes of radionuclides which
	may occur by a range of pathways including inhalation and
	ingestion.
IR(ME)R 2017	The Ionising Radiation (Medical Exposure) Regulations 2017
IRR 2017	The Ionising Radiations Regulations 2017, which came into force
	on 1 st January 2018, replacing the 1999 regulations.

L121	The HSE publication which includes the regulations, ACoP and
	guidance for IRR17.
Local rules	Written radiation safety instructions – as defined and required by
Local fules	Regulation 18 of IRR17.
Outside Worker	
Outside worker	A radiation worker (classified or non-classified) who works in
	another employer's controlled or supervised area.
Radiation generator	An electrical device designed to produce ionising radiations - most
	obviously an x-ray tube but also cyclotrons and some other special
	apparatus. Normal cathode ray tubes in VDUs, etc. present no
	radiation risk and fall outside of IRR17.
REPPIR	The Radiation (Emergency Preparedness and Public Information
	Regulations) 2019.
RPA	Radiation Protection Adviser appointed under Regulation 14 of
	IRR17
RPS	Radiation Protection Supervisor appointed under Regulation 18 of
	IRR17
Sealed Source	A radioactive source containing any radioactive substance whose
	structure is such as to prevent, under normal conditions of use, any
	dispersion of radioactive material into the environment.
Sievert	SI unit of radiation dose. Quantifies the amount of radiation
	exposure of a person and is related to the risk of harm to the
	individual. More commonly encountered as sub-units, i.e.
	microSievert and milliSievert.
Stock pot	Term used by some users to describe the vial containing a solution
•	of a radioactive labelled compound, together with the outer
	(sometimes lead shielded) container provided by the
	supplier/manufacturer of the compound.
TLD dosemeter	Thermoluminescent dosemeter. A type of personal dosemeter used
	both as a whole body dosemeter, and as an extremity (e.g. finger)
	dosemeter.
Transport document	A document that travels with a package of radioactive material in
	transit by road, air, or sea. Sometimes called a "consignment note".
Transport index (TI)	A value to be recorded on labels and documentation accompanying
Transport mask (11)	some packages containing higher amounts of radioactive materials
	that are moved by road, air, sea, etc. The T.I. is the dose rate at 1
	metre in air, in mSv/hr x 100, or the dose rate at 1 metre in air, in
IIK Haalth Caaurity	microsievert/hour divided by 10. Currently carries out the functions of the former Public Health
UK Health Security	•
Agency (UKHSA)	England / Health Protection Agency / National Radiological
	Protection Board, which was set up under the UK Radiological
Hannal - I	Protection Act of 1970.
Unsealed source	Any radioactive source that doesn't meet the requirement of a
	sealed source.